

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-11. (canceled)

Claim 12. (currently amended) A purified nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence which encodes ~~an~~ the amino acid sequence as set forth in SEQ ID NO:2;

(b) a nucleotide sequence which hybridizes under conditions of ~~moderate to high~~ stringency to the complement of a second nucleic acid molecule which encodes an amino acid sequence of SEQ ID NO:2, wherein high stringency conditions are 0.1X SSC at about 68°C; and,

(c) a nucleotide sequence which hybridizes under conditions of moderate stringency to the complement of a second nucleic acid molecule of SEQ ID NO:1, wherein moderate stringency conditions are 0.2X SSC/1% SDS at about 42°C;

wherein said nucleic acid molecule encodes the nucleotide sequences of part (b) and part (c) encode an amino acid sequence that has at least 80% identity to the amino acid sequence of SEQ ID NO:2.

Claim 13. (currently amended) An expression vector for expressing a coccidian CKI protein in a recombinant host cell wherein said expression vector comprises ~~a~~ the nucleic acid molecule of claim 12.

Claim 14. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 13.

Claim 15. (currently amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

(a) transfected the expression vector of claim 13 in a suitable host cell; and,

(b) culturing the host cells cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 16. (currently amended) An isolated nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises ~~a~~ the nucleotide sequence of SEQ ID NO:1.

Claim 17. (currently amended) An expression vector for expressing a coccidian protein in a recombinant cell wherein said expression vector comprises ~~a~~ the nucleic acid molecule of claim 16.

Claim 18. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 17.

Claim 19. (currently amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfected the expression vector of claim 17 into a suitable host cell; and
- (b) culturing the host ~~cells~~ cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 20-37. (canceled)

Claim 38. (currently amended) A purified nucleic acid molecule of claim 12, wherein said nucleic acid molecule comprises a nucleotide sequence which encodes ~~an~~ the amino acid sequence as set forth in SEQ ID NO:2.